

**Generation of non-conventional energy in Andhra Pradesh**

1138. SHRI SOLIPETA RAMACHANDRA REDDY: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the total quantity of non-conventional energy being generated in Andhra Pradesh at present during the last three years;

(b) the various types of non-conventional energy projects taken up in Andhra Pradesh and the details of investment in each project during the last three years, year-wise; and

(c) the details of subsidy given to Andhra Pradesh for these projects during the last three years, year-wise?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) The Ministry has been supporting a wide range of non-conventional energy programmes^rojects for energy generation based on solar, wind, biomass and small hydro power throughout the country including the State of Andhra Pradesh. It is estimated that about 1064.61 Million Units of electrical energy have been generated under major energy generation programmes such as wind power, biomass cogeneration power, solar power, biomass gasifiers, small hydro power and waste to energy projects during the last three years in the State of Andhra Pradesh. In addition, the Ministry is also promoting decentralized energy systems such as biogas plants, improved chulhas, solar photovoltaic systems. The details of such systems/devices installed in the State are given in Statement I (*see* below).

(b) and (c) The details of financial assistance provided by the Ministry during last three years i.e. 1998-99, 1999-2000 and 2000-01 under major energy generation programmes and decentralized energy systems in the State of Andhra Pradesh, year-wise, are given in Statement II.

**Statement-I**

*Details of energy produced from the major power generating systems of non-conventional energy sources during the last three years (1998-99 to 2000-2001J in the State of Andhra Pradesh*

S. No.	Sources	Energy produced/ generated (in million units)
1.	Wind Energy	183
2.	Small Hydro Power	670
3.	Biomass Cogeneration	104
4.	Solar Power	0.01
5.	Biomass Gasifier	62.67
6.	Waste to Energy	44.93
TOTAL:		1064.61

*Number of decentralized energy systems installed during the last three years (1998-99 to 2000-2001) in the State of Andhra Pradesh*

s. No	Systems/devices	Systems installed
1.	Biogas Plants (Nos. in lakh)	0.62
2.	Improved Chulha (Nos. in lakh)	6.19
3.	Solar Photovoltaic systems	
	a. Solar Home Lighting (Nos.)	283
	b. Solar Lanterns (Nos.)	13208
	c. Solar Street Lighting Systems (Nos.)	285

**Statement-II**

*Details of financial assistance provided during last three years i.e. 1998-99, 1999-2000 and 2000-01 under major energy generation programmes in the State of Andhra Pradesh*

(Rs. in crores)

s	Name of Programme/Project	1998-99	1999-2000	2000-2001
No.				
1.	Wind Power	0.049	0.063	1.920
2.	Biomass Cogeneration	—	3.210	7.010
3.	Biomass Gasifier	0.290	0.330	0.580
4.	Solar Power	0.200	—	—
5.	Small Hydro Power	6.000	38.400	38.400
6.	Waste to Energy	—	1.450	0.713
7.	Biogas Programme	6.135	7.450	6.165
8.	Improved Chulha	0.933	0.489	1.860
9.	Solar Photovoltaic Programme	1.6544	0.5490	0.6720
10.	Integrated Rural Energy Programme	—	—	0.347